

Anchorage Amateur Radio Club Newsletter



Next General Meeting
November 3, 2017
Carr Gottstein Building - 7:00pm



ARRL Simulated Emergency Test October 7th !



Simulated Emergency Test (SET)

October 7, 2017



The primary League-sponsored national emergency exercise is designed to assess the skills and preparedness of ARES® and other organizations involved with emergency and disaster response.

“Every local ARES team and/or ARRL Section will come up with their own scenarios and work with served agencies and partner organizations during the SET,” said ARRL Field Organization Team Supervisor Steve Ewald, WV1X, who pointed out that not all SETs will take place on the first full weekend of October.

ARRL Field Organization Leaders — Section Managers, Section Emergency Coordinators, Section Traffic Managers, District Emergency Coordinators, Emergency Coordinators, and all of their Assistants and Net Managers — are among those tasked with developing plans and scenarios for this year’s SET, Ewald explained.

“The SET invites all radio amateurs to become aware of emergency preparedness and available training,” Ewald said. “ARES, Radio Amateur Civil Emergency Service (RACES), National Traffic System™, SKYWARN, Community Emergency Response Team (CERT), Salvation Army Team Emergency Radio Network (SATERN) and other allied groups and public service-oriented radio amateurs are encouraged to participate.”

The object of the annual nationwide exercise is to test training and skills and to try out new methods. “It’s a time to work with partner organizations and served agencies to get to know them better and to determine their needs *before* an emergency or disaster strikes,” Ewald said. “Knowing whom to contact within partner groups with the planned procedures will help everyone accomplish their goals and succeed in their missions.”

Over the decades, ARRL has established strong working relationships with multiple organizations and agencies, such as the Federal Emergency Management Agency (FEMA), the American Red Cross, The Salvation Army, the National Weather Service, the National Communications System, the Association of Public-Safety Communications Officials- International (APCO-International), Citizen Corps, National Voluntary Organizations Active in Disaster (NVOAD), REACT International, the Society of Broadcast Engineers (SBE), the US Power Squadron, and the Boy Scouts of America.

To get involved, contact KL7TS or KL5T

Here are some preliminary specifics for AARC:

1. Activate as many critical communications infrastructure and served agency locations as possible (AARC Club Station, MTV, Pickup, AEOC, SEOC, EARS, ANMC Hospital, ANMC Tuttle Warehouse, Senior Center, perhaps more).
2. Attempt to deploy at least 1 packet kit to a specific location to generate and receive radio traffic.
3. Attempt to operate all radio gear at AARC Club Station on alternate power.
4. Deploy local hams to a list of bridge, airport, and railway locations to report status of that specific infrastructure. We can discuss these to come up with a good list.
5. Ensure we actively document all opportunities we identify during the event for future improvement efforts.

KL5T

Yes, AARC is participating in the SET scheduled for October 7th. This is the primary League-sponsored national emergency exercise is designed to assess the skills and preparedness of ARES® and other organizations involved with emergency and disaster response. We will be energizing the club-house from our 12KW diesel to simulate a wide-spread loss of power. HF, UHF, VHF, Packet, and mesh stations will be operational. Come and join your fellow members on October 7th (bring a flashlight). With homeland security issues in the news along with natural disasters occurring, over the past year; Amateur Radio operators have continued to perform in commendable fashion in a variety of situations and locations. Let's be sure we're fully prepared to serve our community.

(Don't forget the general meeting this Friday on October 6, 2017. This newsletter is out a little early this month due to calendar timing.)

New Contact / Board of Directors Page Loaded

A new page has been added to the website and is available from the top menu on all pages. It's the "Contact / Board of Directors" page. It contains our mailing and physical addresses, a listing of our Board members (including term expiration and e-mail contact info), and work positions assignments.

AARC is Accepting Credit Cards!

AARC can accept your credit card for payment (via Square Reader) of dues and donations. See Kent KL5T at the next club meeting, club working Wednesdays or board meeting. Note that accepting credit card payment via our web-site is still in progress.

Fall is the time to renew your membership; don't forget!

Thanks Kent KL5T, for setting this up



AARC MESH Connection to Mat-Su – Good Signal and Throughput!

On Monday, September 25, I traveled out to Fire Station 61 in Wasilla to test connectivity and throughput with a Ubiquiti RocketDish/Rocket M3 radio to our Site Summit node. A quick setup with the dish mounted to a tripod on the ground showed very good signal levels; about 20 db SNR. Should have made for excellent throughput. Unfortunately, I had virtually no throughput. It just didn't make sense. I headed over to the Chevron station near Knik Goose Bay Road and Vine, and found about the same thing; good signal strength but no throughput. I gave up and headed home to scratch my head.

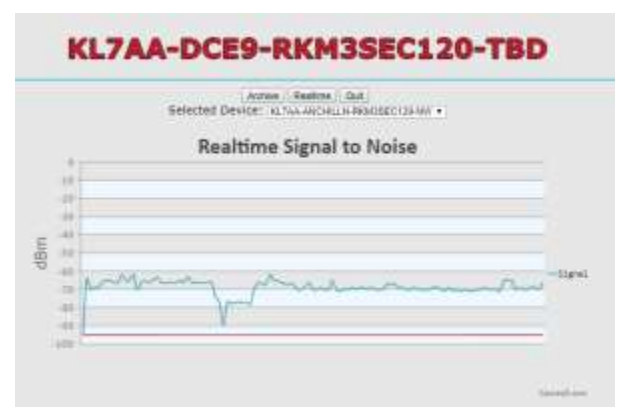
I gave Tom Delker, K1KY, a call in Tennessee. Tom has been our mentor for all matters MESH and is a mover and shaker in the AREDN MESH world. He clued me in real quickly. I had forgotten to consider the "distance" setting on each of the radios. The distance setting effectively controls the latency on the transmit/receive cycle. If the latency is too long (or distance setting set too long), you'll end up with throughput, but its speed won't be maximized. If the distance setting is set too short (effectively shortening the latency period), you'll get virtually no throughput. When I made a check of the radios in question, that's exactly what I found. The distance parameters were set to about 10 miles on each unit, so neither radio would listen for the other radio long enough after each packet for a reply; they'd effectively re-transmit too soon.

I made the necessary distance parameter changes (about 22 miles between Site Summit and Fire Station 61), and voila, excellent throughput! It's great when a plan comes together!

Today I did a bit of testing from the west side of Lake Hood to Site Summit and our two Hillside Nodes and found excellent signal strength and throughput as well.

Bottom line is that the RocketDish units linking with our 120 degree High-Gain Sectors really work well together. We now know for sure that we've got good path and connectivity availability between Anchorage and Wasilla on the MESH and look forward to our friends in the Valley joining the MESH.

If you'd like to learn more about the AARC MESH network and want to get involved, would like to host a node site, or just want to learn more, contact Kent Petty, KL5T (mesh@kl7aa.net).



Towers / HF Antennas Need Tear Down

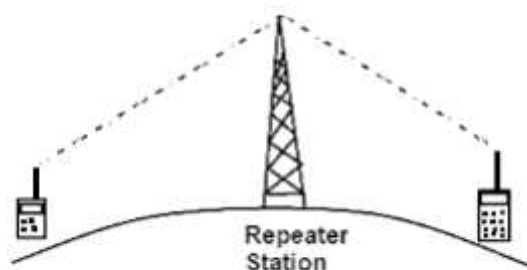
Request for Assistance

The club has donations of a couple HF antennas and one crank up tower that need to be attended to. We'd like to get these taken down within the next week or so, and preferably this weekend if possible. The work shouldn't be too difficult as these are both crank up towers that can be lowered to do most of the work. If you can help, please contact Kent (vicepresident@kl7aa.net). It would be awesome to get this done before the snow flies



Grubstake Repeaters Back Online

It looks as though we may have a good fix in place for the Grubstake 2-meter (147.33+) and 440 (443.90+) repeaters. As you may know, the units have been off/on/offline over the past couple months. On Tuesday, a visit was made to the site. Problem seemed to stem from an old 20A circuit breaker that was feeding both repeaters; it just plain wore itself out. The fix was to remove this breaker, and to install two new breakers in its place. Now, each repeater has its own individual circuit breaker.



We think this problem is solved and we hope to be trouble free for some time to come.

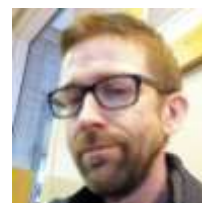
Kent, KL5T

HAARP 2017

HAARP will be transmitting this month. Learn all about it and listen/look for its effects while it operates.

[HAARP 2017 – UAF Geophysical Institute](#)

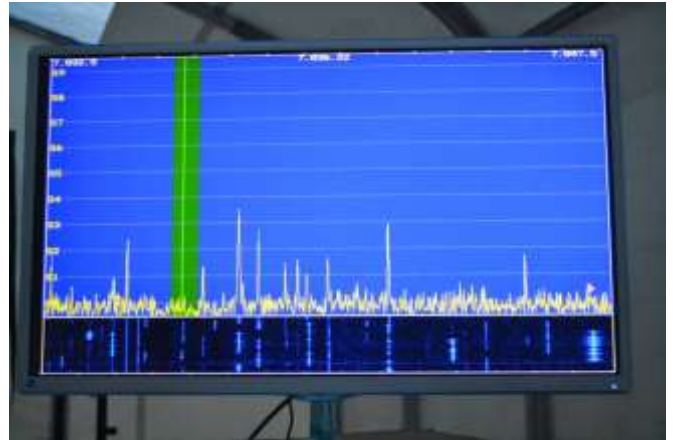
Follow [@ctfallen](#) on Twitter.



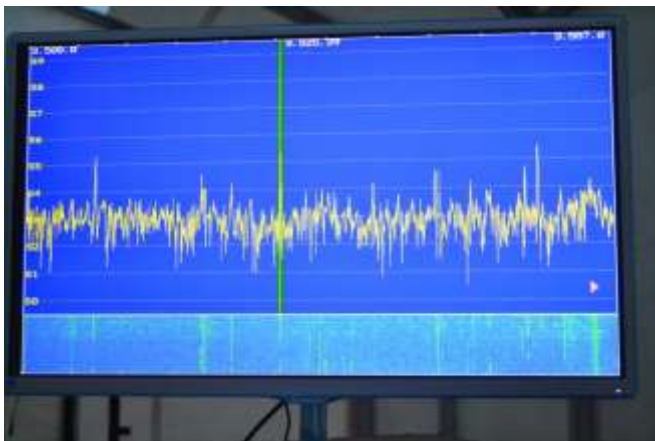
By [RICH GILLIN](#)

FCC Site – Exceptional Signal to Noise

I finally caught up with Pat Wilke, KL7JA a few days ago. Pat hung out with me in the tent for a good portion of the night during Field Day this year at the FCC site. I was working 40 and 80 meters using the club's Steppir Vertical. We've had great success on 40 and 80 meters consistently during Field Day when operating from the FCC site and Kincaid Park. It's pretty remarkable how low the noise floor is there as compared to the rest of the Anchorage bowl. I couldn't help but ask Pat to snap a couple of photos:



40 Meters



80 Meters

These should speak for themselves! Notice the S-ZERO noise floor on 40 meters and all the signals up and down the band! Makes a DXer/contester's mouth water! Not too shabby on 80 meters either, considering we're using a vertical. You can see the signals on the band even though there is about S-3 noise.

Just wanted to share some fun memories, and looking forward to a permanent residence at that fine location! Let's keep our fingers crossed!

Kent, KL5T

AARC WX3in1 APRS Digipeater / I-Gate Configured and Being Tested

As part of our Hillside South location upgrade and to replace the old KL7AA APRS Digipeater/I-Gate formerly operated from the club station, we purchased a Microsat WX3in1 APRS Advanced Digipeater/I-Gate the better part of a year ago. We've finally been able to move the project forward due to the efforts of Kevin Opalka, KL2NV. Kevin picked up the pieces of the project about a week ago during Working Wednesday, and by the end of Working Wednesday this week, the unit was up and operating for a testing period.

The WX3in1 is a stand-alone APRS Digipeater/I-Gate ([click this link to learn more about the unit](#)). It's effectively a TNC specifically designed for APRS operations. It requires a computer for initial configuration, then after that, is able to operate stand-alone while connected to a radio. In addition to direct APRS functions, it can also accept a thermometer connection, a full weather station connection, and has its own web browser GUI.

It was a team effort led by Kevin this week, and even included assistance from Tom Delker, K1KY in Tennessee (remember Tom, our MESH network mentor?). Kevin updated the firmware, set parameters on the unit, and made appropriate physical connections between the unit and a Kenwood TM-261 transceiver. Based on K1KY's input and advice, we checked the deviation of the unit's output and found it to be highly over-deviated. We backed it down accordingly, and then promptly got the digipeating and I-gate functions operating. Even Corny Eastman, KL0FK, got in on the action with help setting up the station monitor for deviation adjustment. The unit is connected to the MESH network and is actually gating APRS positions to the web via the AARC MESH.

The plan is to keep the unit running at the club station for about a week. Once we confirm that everything is operating as planned, we'll move it to its permanent home at our Hillside South location at KL7QN's residence where it will be connected and controlled over the MESH network. We already have a 2-meter antenna in place at the site just waiting for the WX3in1's arrival!

If you'd like to learn more about APRS or the MESH, please drop an email to mesh@kl7aa.net.

Kent Petty, KL5T



An Antenna Tale

by Mark Sabel, WD6BMJ

Last June I was at the
AARC Field Day Station...

talking with TJ, KL7TS.



Mark, WD6BMJ



(L) Keith, KL7MM, (R) TJ, KL7TS

Seem to be kite flying, but actually steering a beam

I was bemoaning to TJ the poor performance of my home HF antenna,
a low elevation 40m dipole made from speaker hookup wire.



TJ recommended an Alpha Delta DX-CC multi-band wire antenna.

Alpha Delta's DX line of antennas are a sort of fan dipole. Antenna elements are separated by plastic stand-offs.

I went online to Ham Radio Outlet and started the process to order the antenna.

Before the order could be completed I had to accept an emailed quote for the International Shipping fee.

After all, the antenna would have to be shipped from New Hampshire, U.S.A. to the distant land of Alaska.

The DX-CC promptly arrived at my QTH in a big clear plastic bag.

On the next sunny Saturday I spread all the components out in my backyard following the printed 'some assembly required' instructions. To my irritation I discovered the antenna was flawed.

That evening while grinding my teeth I wrote an email to Alpha Delta including a photo:

Dear Sir:

Today I installed a new DX-CC with a sticker dated FEB. 22 2017. I was disappointed that one of the spacers didn't have one of the required holes.

Sure, it was no big deal for me to drill the hole myself, but when I pay \$160 for a wire antenna and another \$20 to have it shipped to my home in Alaska, I expect a quality product.

Someone erred in not drilling the hole. Then another Alpha Delta employee packed the antenna with the faulty spacer. I hope you'll take appropriate action to address quality control at Alpha

Delta.

73's,

Mark Sabel WD6BMJ

Anchorage, AK



The following Monday I was pleased to receive this response:

Hi Mark,

I'm very sorry for the missing hole. That's the first time I've seen that in my 24 years here but I have made our QC manager, QC supervisor, production manager, production supervisor and production engineer aware of the problem and I copied your email with the picture to each of them.

We will take appropriate action to prevent a recurrence. Again, we are sorry for the error and we appreciate that you took the time to call it to our attention. I hope the antenna serves you well.

Thank You, 73 and Good DX !

Jim Burns WB4ILP

General Manager

Alpha Delta Communications, Inc.

Manchester, KY USA

My old 40m dipole had been supported by a decaying wooden pole.

The Alpha Delta instructions called for 18 inch separation between the antenna center support and a metal mast. I considered using a length of conduit with a bend. Then I remembered years ago a friend gave me an old 3 foot diameter dipnet attached to a long pole.

A brainstorm... the radius of 3 feet is 18 inches! I cut off the rotten net and drilled a hole in the frame.

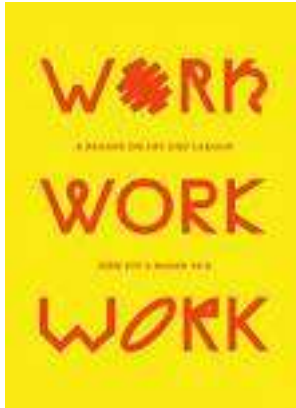


DX-CC antenna attached to dipnet frame atop the world headquarters of WD6BMJ

I realize the 3 foot ring may effect the antenna's radiation pattern but I like to muse that where once the dipnet's frame was in water waves for the purpose of catching salmon, it now is in radio waves for the purpose of catching RF signals. Propagation wasn't great over summer. But if DX windows open while the snow falls this winter, I'll be at the ready with my new dipnet antenna!

Thanks Mark, WD6BJM for the newsletter article

Time to sign-up to help with these projects!



We need everyone's efforts for the following projects that have been identified. Contact the individual indicated to coordinate the work on these projects.

Project or Activity Need	Description	Contact
ARES - Anchorage Department of Corrections Emergency Co-ordinator	We need a lead person to coordinate support for the Anchorage area State of Alaska Department of Corrections emergency communications needs. An MOU is in place. We need a point person. Ready to get involved?	KL5T
ARES - Membership on Critical Resources Teams	Become a member of a team supporting a critical communications resource or served agency. We do need your help.	KL5T
Assist with donated tower take-downs and removals	Are you willing to assist with tower dismantling? We always need help. Are you willing to be a tower or ground crew member?	KL5T
Assist with removal and disposal of "dead lead" (old batteries)	These need to be hauled away periodically. Can you be the dead lead leader?	KL7TS
Build Worktop for Operating Table for MTV	The MTV uses a 2' x 4' portable table as a work top. It would be enlarged somewhat by building a 2' x 6' top that sits securely ovetop. Do you have some woodworking skills?	KL7MM or KL5T
Cable Crimp Tool God / Goddess	We have a lot of crimp tools that need to be characterized, instructions provided, and training to be provided on their use. A worthwhile project. Are you up for it?	KL7TS or KL5T
Club Antenna Analysis, Characterization, and Repair	Evaluate antennas on the shelves for resonant frequency(ies), structural integrity, label, and store. Use the club's AIM antenna analyzer to characterize.	KL7TS or KL5T
Club Member Antenna Sweep and Analysis	Visit club member's home stations to sweep antenna systems with club's AIM antenna analyzer. Also check mobile systems.	KL7TS or KL5T
Club Work Shop Organization and Storage	We need to get the work shop area organized so it is more functional and looks like a professional shop. Are you a great organizer?	KL7TS
Document Scanning	Lots of club documents need to be scanned. Any help would be appreciated	AL2R or KL7GD

Continued on the next page

Project or Activity Need	Description	Contact
Equipment Inventory and Management	Assist Vice President with equipment inventory, labeling, and database management.	KL5T
Front Office Organization and Storage	The club's front office needs to be organized. Shouldn't be too difficult a job, just needs to be tackled.	KL7TS
Garage Organization and Storage	Need some real help here. If we can get this space organized it will make a real difference being able to get work done.	KL7TS
Hand and Power Tool Organization	Organize all hand and power tools at the club station. Many tools need to be labeled with ID numbers and added to the inventory.	KL7TS
LCD Monitor Repair	An LCD monitor needs repair. It needs a couple capacitors replaced. An instructional video for the repair is available. This is a good novice project.	KL5T
Manager the Club's Facebook Page	Yep, we are on Social Media and really need someone to manage our Facebook page. Can you help?	AL4S, KL5T, or KL7M
MESH Network - File Server	Develop a file server for the MESH network using a Raspberry Pi. Systems are in place as examples.	KL5T
MESH Network - PBX	Assist with MESH system Raspberry Pi telephone server (PBX).	KL5T
Mezzanine Organization and Storage	This is our primary long storage area and really needs to be cleaned up. Can you help?	KL7TS or KL5T
MTV Equipment Outfitting	We need to get our MTV Properly outfitted so it can deploy and operate on a moment's notice. Can you work with our Heavy Rolling Stock Manager to assist?	KL7M M or KL5T
Project or Activity Need	Description	Contact
Portable Deployable Kit Manager	We need someone to manager our deployable kits. These include simple portable voice stations, packet stations, crossband repeater units, and MESH units in the future. This is a cool job!	KL5T
Reprogram Portable 440 MHz Portable Repeater Morse IDer	We need to reprogram the Morse IDer in our portable 440 repeater. We've got the keypad to do the job, but need someone to champion the	KL7TS or KL5T
RF Cable Labeling	Characterize and label all active and available antenna feedlines using club's cable labeler.	KL7TS
RFI Team Lead	The club has some excellent RFI detection equipment. We need to get it into service on a regular basis. How would you like to lead the effort to track down the countless sources of harmful interference in Anchorage?!	KL7TS or KL5T
WX3in1 Plus 2.0 APRS Digipeater / I-Gate	Configure hardware, set system parameters, and install the club's WX3in1 Plus APRS unit at AARC hillside site located at KL7QN's residence.	KL5T

An opportunity to have “eye-ball” QSO’s and get a project completed!

Have you signed up?

(It really is painless)



Here are two ways you can help fund our Anchorage Amateur Radio Club. Both are really easy on your part. Please consider doing both options:

Fred Meyer will give us money!

All you have to do is shop there and sign up AARC as your non-profit beneficiary. Once you sign up, a portion of every purchase you make is donated to AARC. There is no increase to you for your purchase by declaring AARC as your beneficiary. Currently there are three individuals signed up for this worthy cause. Let's see if we can make it one hundred by the next membership meeting in September!

You still earn your Rewards points, Fuel Points, and Rebates just as you do today.

The AARC's Fred Meyer non-profit number is 94846.

If you don't have a Fred Meyer Reward Card, they are available at their service desk.

Tell your family, friends and neighbors about this opportunity too.

Amazon Smile will give us money!

If you do shopping on-line at Amazon, you can designate AARC as your charitable organization. Amazon will donate 0.5% of your purchase to AARC. Log-on to:

<https://smile.amazon.com/ch/23-7225693>

For more information.

ANCHORAGE AMATEUR RADIO CLUB
BOARD MEETING
August 15, 2017
540 WEST INTERNATIONAL ROAD
Anchorage, AK

The meeting was called to order at 7:00 PM by President Lara Baker AL2R
A quorum was established

BOARD MEMBERS PRESENT:

Lara Baker AL2R, Alice Baker KL2GD, Keith Clark KL7MM, T.J. Sheffield KL7TS, George Wilkinson KL1JJ, Rich Gillin AL4S, Kent Petty KL5T, Dan Knapp KL4CX, Lil Marvin KL7YF, Dave Heimke AL7LO, Dave Webb N9AIG, Richard Tweet KL2AZ

BOARD MEMBERS PRESENT VIA TELECONFERENCE:

Jim Wiley KL7CC

NON-VOTING MEMBERS/GUESTS PRESENT

Allen Abbott KB1QCE, Michael O'Keefe KL7MD, Kathy O'Keefe KL7KO

EXCUSED BOARD MEMBERS

none

UNEXCUSED BOARD MEMBERS

none

REQUEST FOR AGENDA ITEMS

Credit card acceptance

Banking

GUESTS

None

TIME CRITICAL ITEM(S)

None

REPORTS

SECRETARY REPORT

Previous Board meeting minutes for the July 18, 2017 Board Meeting, and August 4, 2017 General Membership meeting were presented. Motion made by George Wilkinson KL1JJ, seconded by Alice Baker KL2GD to accept the minutes as presented. Motion passed with no objection.

TREASURER'S REPORT

Alice Baker KL2DG gave the Treasurers report. All bills have been paid, KL7AA.net has been renewed.

FINANCE COMMITTEE

Keith Clark KL7MM reported on the Finance Committee meeting. Restitution payments are still \$0 and Keith will be working with the new restitution office and will hopefully have a report at the next Finance meeting, FCC Building project is still being tracked,

AARC Budget will be discussed at the next Finance Committee meeting. AARC is in a cost savings mode. Discussion was held on reducing AARC Internet costs.

PROJECTS COMMITTEE

T.J. Sheffield KL7TS reported on project status for 1) KL7QN site improvement (mesh node/APRS gateway) 2) Anchorage Senior Center station installation and 3) MESH node phase 3 install at KL7SB and Pioneer Home locations. Discussion was held on possibility AARC has equipment at the Conoco building, Dave Heimke will research and approach Conoco on installation of a MESH antenna on their facility.

GRANT COMMITTEE

Michele Girault (Dog Jog) contacted AARC requesting a brief write-up of the club's mission and with it, will submit AARC for consideration for a \$10,000 grant. T.J. Sheffield will provide the write-up and noted the grant selection process is multi step. Discussion noted that AARC Board members should be signed up with Fred Meyer Rewards program and Amazon Smile.

GAMING REPORT

Lara Baker AL2R reported that he is still researching the bingo operation reopening in the old Boniface Bingo location. Discussion was held on the use of gaming permits and the responsibilities/rules/costs associated.

BUILDING COMMITTEE

Dave Heimke AL7LO gave a brief synopsis of what has occurred to date regarding the attempt to obtain a lease of the old FCC building. The latest reply from the Airport was that they were considering a land lease versus a building lease. The Building Committee continues to work this project. Discussion was held on progress, lease rates, legal review, building potential uses, and utilities.

EQUIPMENT REPORT

Kent Petty KL5T reported that the project to remove the tower for KL7GN will be completed on the 18th.

VE PROGRAM REPORT

Jim Wiley KL7CC reported on the required change to the NCVEC and other Form 605's to include the new basic qualification question regarding an applicant ever having had a State or Federal felony conviction and costs to reprint and distribute the forms. Jim reported on \$2,000 savings to the AARC by attending the NCVEC Gettysburg conference telephonically versus in person and also on the upgrade to submission software being researched.

TRUSTEE REPORT

Keith Clark KL7MM reported that there haven't been any requests for use of the club call, working Wednesdays continue. Field Day logs have been updated on Logbook of the World (LoTW). The RunFest event will be using the club repeater as well as simplex operation downtown.

MEMBERSHIP REPORT

Rich Gillin AL4S reported on recent activity including 6 membership renewals since June. Rich requested a review of the policy for annual and free memberships.

BY-LAWS

none

ARES

Kent Petty KL5T reported that ARES (Ray and Linda) are having success with obtaining a Memorandum of Understanding with the State of Alaska and hope to have results in the next 3 to 4 weeks, The ARRL SET Exercise dates are October 7th and 8th, MESH is being used for Winlink RMS gateways, Repairs to the Grubstake repeater may occur in September if the helicopter is available. Discussion was held on the Site Summit repeater repairs and repeater control.

OLD BUSINESS

Lara Baker AL2R discussed the upcoming September membership meeting and the procedures for nominations for the AARC Board of Directors. Lara noted that the current Treasurer, Alice Baker KL2GD has requested to step down as Treasurer, Jill Heimke WL7BTT has volunteered for the position and is appointed by the Board. There will be a 3 Director positions up for election. Nominations require two seconds. The AARC Board may determine the method of holding a contested election if one is required.

NEW BUSINESS

Publication of Minutes – Discussion was held on the practice of publishing AARC Board and Membership meeting minutes in the newsletter. Motion made by Lara Baker, seconded by Rich Gillin that only minutes approved by the Board are to be published.

Credit Card Acceptance (Square) – Kent Petty KL5T explained the benefits of the AARC being able to accept credit card payments. There was no objection to initiating this practice via “The Square”

Banking – A discussion was held on the fees associated with AARC banking at First National and that there may be better alternatives available. The new Treasurer will be directed to investigate this and report back to the Board.

Mike O’Keefe KL7MD brought forward a request from the Girdwood Volunteer Fire Department for training/testing. They will purchase their own books and wanted a cost for testing. Discussion was held on suggested classes and associated charges and charging for the exam. Motion made Alice Baker KL2GD, seconded by George Wilkinson KL1JJ to arrange for class dates with the Chief of the Volunteer Fire Department and the classes have a total charge of \$35 per person with there being no charge for the testing. The motion passed unanimously.

PROGRAM FOR SEPTEMBER MEETING

Election Nominations

ADJOURNMENT

The meeting adjourned at 8:50pm.

Respectfully submitted as recorded on 08/15/2017

By Richard Tweet KL2AZ, Secretary

ANCHORAGE AMATEUR RADIO CLUB
MEMBERSHIP MEETING
September 1, 2017
Carr Gottstein Building – APU Campus
Anchorage, AK

Call to Order

The meeting was called to order at 7:00 PM by President Lara Baker AL2R. A quorum was established (25 in attendance, 18 required). Members and guests introduced themselves.

Business

Lara Baker AL2R reported that Jill Heimke WL7BTT has volunteered to fill the vacated Treasurer position and complete remaining term and has been appointed by the Board.

Lara Baker AL2R reported on AARC election rules as dictated by the Bylaws and Rules of Procedure. Nominations were opened for the 3 Director positions as follows:

Allen Abbott KB1QCE nominated Alice Baker KL2GD, seconded by Craig Bledsoe KL4E and Kathleen O'Keefe KL7KO.

Kathleen O'Keefe KL7KO nominated Jim Wiley KL7CC, seconded by Peter Summers KL2GY and Alice Baker KL4GD.

Brian Metras KL0WV nominated Dave Heimke AL7LO, seconded by Lil Marvin KL7YF and George Wilkinson KL1JJ.

There were no further nominations, motion made Richard Kotsch WL7CPX, seconded by George Wilkinson KL1JJ to close the nominations. With no objection, and due to uncontested nominations, the positions are deemed filled as nominated and there will be no election.

General Discussion

Lara Baker AL2R opened discussion on AARC membership meetings scheduled/held in conjunction with recognized holidays. After a discussion by members, a poll was conducted and noted that the membership present wishes that meetings are not cancelled due to holidays.

Dave Heimke AL7LO gave a summary of events/progress to date on AARC Project 2017-001 (Occupy FCC) and fielded questions regarding the Facility and Lease progress in obtaining the old FCC building/property on Raspberry Road as the new AARC Club location.

Door Prizes

5 door prizes were awarded.

The meeting adjourned at 8:06pm

Respectfully submitted as recorded on September 1, 2017

by: Richard Tweet KL2AZ, Secretary



Monthly Events



1st Friday each month: AARC general meeting - 7:00 PM in the Carr-Gottstein Building, on the APU Campus. Talk in will be on 147.33+ repeater.

1st Thursday each month: Moosehorn Amateur Radio Club General meeting - 7:00 PM Location is at Borough Emergency Response Center on Wilson Way in Soldotna (behind Soldotna FD. Call for directions on 146.88 repeater (no tone). Moosehorn ARC also holds a weekly luncheon every Thursday, locations and times change — contact George Van Lone, KL7AN: donnav@acsalaska.net

2nd Saturday each month: PARKA (Polar Amateur Radio Klub of Alaska) Meeting at 11:00 AM. Polar Amateur Radio Klub of Alaska. All amateurs welcome. Denny's on Denali Street in Anchorage. Some business is discussed. Originally established as an all woman organization, membership now includes spouses or significant others. Talk in on 147.30+.

2nd Saturday each month (except for holidays): VE License Exams at 2:00 PM. at Hope Cottage 540 W. International. Be sure to bring photo ID, copy of license (if any) and any certificates of completion. Contact: Jim Wiley, KL7CC 688-0660.

3rd Tuesday each month: AARC Board Meeting at 7:00 PM at Hope Cottage 540 W. International. All hams are invited and encouraged to attend.

2nd Wednesday of each month: EARS general meeting at 6:00 PM. EARS meetings are held at the EARS shack location. Contact info - Ron Keech, KL7YK for information. EARS: 552-2664 (recording); Talk in on 146.67-. Email: club@KL7air.us or kl7yk@arrl.net

4th Saturday of each month: Valley VE Testing at 7:00 PM. Sessions will be held at Fire Station 61, at 7 pm on the fourth Saturday of each month unless it is a major holiday weekend. Contact Ken Slauson, KL7VE, Ken.Slauson@gmail.com or 907-376-8698.

The last Friday each month: MARA meeting at 7:00 PM, Wasilla Fire Station 61. Talk-in help for the meeting can be acquired on the 147.33 repeater. Further details can be found by contacting Don Bush, KL7JFT, dbush@gci.net.

Every Monday at 11:00 AM: Meeting of interested Amateur Radio Operators — and lunch at Denny's on DeBarr — across from Costco. Many code and HF operators attend this function. Come talk radio. For information, contact Kathy O'Keefe, KL7KO, kokalaska@gmail.com

Every Saturday at 7:00 AM: Meeting of a group of Amateur Radio Operators at Village Inn on Spenard Road for breakfast. Topics? Radio, photography, and upcoming events For information, contact Kathy O'Keefe, KL7KO, kokalaska@gmail.com.

Active Nets in Alaska

VHF NETS

The local VHF Nets have a Packet side as well. Look for 2 meter Packet at 145.01 (Eagle) and 147.96 (Valley). The Eagle and Valley nodes provide a talk” or chat function. Also, if you are unable to connect directly to one of the nodes, try digipeating through EARS on either frequency. Do this by typing *c eagle v ears* or *c valley v ears* on the appropriate frequency. Check www.KL7AIR.us for more information on the digipeaters.

ARES Net: 147.33 w/ 103.5Hz tone (Backup 147.30 w/ 141.3Hz tone) —Thursdays at 8:00PM

No Name Net: 146.43 simplex—Sundays 8:00PM

South Central Simplex Net: 146.52 FM, 144.2 USB, 446.0 FM, 432.2 USB, 223.5 FM, 927.5FM, 1294.5 FM, 52.525 FM, 50.125 USB, 29.6 FDM, 28.4 USB, 145.01 Packet (Eagle Node), 147.96 Packet (Valley Node) - Tuesdays 8:00PM

Alaska VHF Up Net: 144.200 USB—Saturdays 9:00 AM

Alaska Morning Net: The Alaska Morning Net is held Monday through Saturday from 9:00 AM—11:00 AM on the IRLP Reflector 9109. This net can be reached via several hosting nodes in the area. Please visit www.status.irlp.net/index.php?PSTART=2&mode=3 to find the closest node. Also the net can be reached via EchoLink on 9191 (WL7LP-R) and Allstar nodes 27133 and 29332. The Alaska Statewide ARES net is held on Thursday evenings at 8:30pm (following the Anchorage ARES net) at the same locations and also the 8:30pm Sunday evening Alaska Statewide Radio Link.

HF Nets

Alaska Snipers Net: 3.920 MHz 6:00pm daily

Alaska Bush Net: 7.093 MHz 8:00pm daily

Alaska Motley Net: 3.933 MHz 9:00pm daily

ACWN (Alaska CW Net): 3540 kHz, 7042 kHz, 14050 kHz Non-directed, CW calling and traffic watch for relaying NTS of other written traffic. AL7N monitors continuously receivers always on WL2K. (RMS connection available— AL7N@winlink.org)

Alaska Pacific Net: 14.292 MHz 8:30am M-F

ERC HF Net: 3.880 MHz 8:30pm Sundays



DATA YOU CAN USE				
Frequency	Tone	Callsign	Features	Area
147.18-	88.5	ADES		JBER
146.88-	no tone	AL7LE	Phone patch	Kenai/Soldotna
146.82-	103.5	WL7CWE	IRLP	Anchorage
146.76-	123.0	KL3K	IRLP	Seward
146.94-	103.5	KL7AA	Phone patch	Anchorage to Wasilla
224.94-	no tone	KL7AA		Anchorage
444.70+	103.5	KL7AA	Phone patch	Anchorage
146.67-	103.5	KL7AIR	MARS station	Anchorage & Highway N
147.30+	141.3	KL7ION		Very Wide Area
146.85-	103.5	KL7JFU	Cross Banded to 444.600	Mat Valley
444.6+	103.5	KL7JFU	Cross Banded to 146.85	Mat Valley
146.91-	no tone	KL7JL		Homer
147.15+	107.2	KL5E	Phone patch	Eagle River/Chugiak
147.84-	103.5	WL7CWE		Wasilla repeater
147.33+	103.5	WL7CWF	Cross linked to 443.900	Very Wide Area
443.900+	103.5	WL7CWF	Cross linked to 147.33	Very Wide Area

South Central Area Simplex Frequencies	
146.52	National Calling and Emergency Frequency
147.57	DX Spotting Frequency
146.49	Anchorage Area Simplex Chat
146.43	Mat-Su Valley Simplex Chat
147.42	Kenai Peninsula Simplex Chat

WinLink Information		
144.9	WL7CVG-10	Anchorage Area RMS
145.19	KL7JFT-10	Palmer/Mat-Su RMS
147.96	KL7EDK-10	Fairbanks RMS
144.9	WL7CVG-4	South Central Digipeater
144.98	KL7AA-10	Anchorage AARC RMS



October 2017

Sun Mon Tue Wed Thu Fri Sat

1	2	3	4 AARC Working Wednesday at Club Station	5 ARES Net	6 AARC Mem- bership Mtg	7 SET at AARC Club House
8	9 AARC Finance committee Meeting	10	11 AARC Working Wednesday at Club Station	12 ARES Net	13	14
15	16	17 AARC Board Meeting	18 AARC Working Wednesday at Club Station	19 ARES Net	20	21
22	23	24	25 AARC Working Wednesday at Club Station	26 ARES Net	27	28
29	30	31 Halloween				

Swap 'n Shop

Here is a listing of equipment that is available for sale. Please watch the AARC web-site for additional information: <http://kl7aa.net/swap-n-shop>



As of the end of August 2017, we got a batch of items from John Clare (Marium) at alaskanspirit@gci.net or home phone (907) 346-3109

These items are located in Anchorage.

Kenwood HF transceiver TS-440S – \$350



Anli 2 m/7o cm band antenna AL 800 – \$15 (no picture)

MFJ-260C 300 dry dummy load 0-600 MHZ – \$25



SWR analyzer-MFJ HF/VHF model 249 – \$80

DAIWA CH-101L Power meter and SWR cross needle meter

There are 2 of these – \$40 each



Benchner ZA-1:1 Balun – \$25 (no Picture)

Pocket Morse code tutor model MFJ 418 – \$30 (no Picture)

Antenna tuner/SWR bridge TenTec model 228 – \$85



Kenwood speaker SP 23 – \$35

Converter Astron model RS-35 25 amp continuous – \$75
(2 pictures)



Transceiver HF TS-570D (Has loose knob for frequency selection) – \$400



Ameritron amplifier AL-80B HG 54 HD – \$700



- HI-GAIN HG 54 HD Crank-up 50 foot tower
- HI-GAIN TH7DX Tri-Band antenna
- HI-GAIN Tail Twister Rotor T2X with control box
- Antenna Selector Delta 4

The tower, antenna, rotor with control box, and antenna selector will be sold as a group for \$1,600. The buyer is responsible for dismantling and removing.



Additional Swap “N” Shop items from Jim Davis KL7JD (907) 776-3429 kl7jd@alaska.net are listed below:

1. Dentron Mt 300A Tuner \$300
2. Yaesu FT-990 (Gene Mockerman’s old radio) All filter spots full, upgraded ROM for logger programs, Great radio \$500
3. More items coming.....

(no pictures)

If you have anything you'd like included in the next newsletter such as items for sale, articles, questions, etc. email *editor(at)kl7aa.net*

Your current AARC Board/Officers

President	Lara Baker AL2R	president(at)kl7aa.net
Vice-President	Kent Petty KL5T	vicepresident(at)kl7aa.net
Treasurer	Jill Heimke WL7BTT	treasurer(at)kl7aa.net
Secretary	Richard Tweet KL2AZ	secretary(at)kl7aa.net
Board 2019	Dan Knapp KL4CX	
Board 2019	Lillian Marvin KL7YF	
Board 2019	Rich Gillin AL4S	
Board 2018	T.J. Sheffield KL7TS	
Board 2018	Keith Clark KL7MM	
Board 2020	Alice Baker KL2GD	
Board 2020	Jim Wiley KL7CC	
Board 2020	Dave Heimke AL7LO	
APRS	Kevin Opalka	
Activities	Allen Abbott KB1QCE	activities(at)kl7aa.net
Trustee	Keith Clark KL7MM	trustee(at)kl7aa.net
Newsletter Editor	Dave Webb N9AIG	editor(at)kl7aa.net
Membership	Rich Gillin AL4S	membership(at)kl7aa.net
VE Testing	Jim Wiley KL7CC	ve(at)kl7aa.net
Webmaster	Brendon Bruns KL1WK	webmaster(at)kl7aa.net
Internet/Network	Rich Gillin AL4S	ip(at)kl7aa.net

US Amateur Radio Bands

US AMATEUR POWER LIMITS — FCC §7.313. An amateur station must use the minimum transmitter power necessary to carry out the desired communications. (b) No station may transmit with a transmitter power exceeding 1.5 kW PEP.

Amateurs wishing to operate on either 2,200 or 630 meters must first register with the Utilities Technology Council online at <https://utc.org/utility-database-amateur-notification-process>. You need only register once for each band.

2,200 Meters (135 kHz)



630 Meters (472 kHz)

5 W EIRP maximum, except in Alaska within 496 miles of Russia where the power limit is 1 W EIRP.

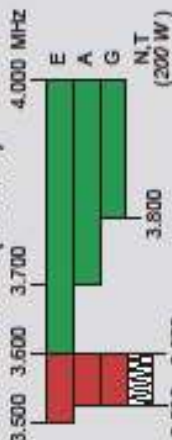


160 Meters (1.8 MHz)

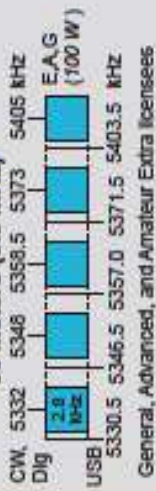
Avoid interference to radiolocation operations from 1,900 to 2,000 MHz



80 Meters (3.5 MHz)



60 Meters (5.3 MHz)



General, Advanced, and Amateur Extra licensees may operate on these five channels on a secondary basis with a maximum effective radiated power (ERP) of 100 W PEP relative to a half-wave dipole. Permitted operating modes include upper sideband voice (USB), CW, RTTY, PSK31 and other digital modes such as PACTOR III. Only one signal at a time is permitted on any channel.

40 Meters (7 MHz)



See Sections 97.305(c), 97.307(f)(11) and 97.307(e). These exemptions do not apply to stations in the continental US.

30 Meters (10.1 MHz)

Avoid interference to fixed services outside the US.



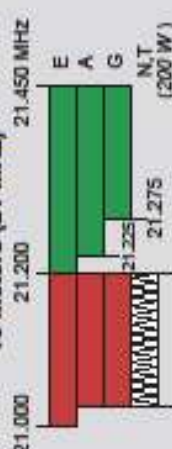
20 Meters (14 MHz)



17 Meters (18 MHz)



15 Meters (21 MHz)



12 Meters (24 MHz)



10 Meters (28 MHz)



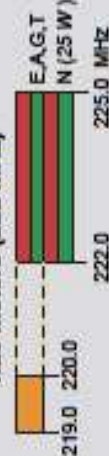
6 Meters (50 MHz)



2 Meters (144 MHz)



1.25 Meters (222 MHz)



*Geographical and power restrictions may apply to all bands above 430 MHz. See The ARRL Operating Manual for information about your area.

70 cm (420 MHz)*



33 cm (902 MHz)*



23 cm (1240 MHz)*



All licensees except Novices are authorized all modes on the following frequencies:

2300-2310 MHz	10.0-10.5 GHz ±	122.25-123.0 GHz
2350-2450 MHz	24.0-24.25 GHz	134-141 GHz
3300-3500 MHz	47.0-47.2 GHz	241-250 GHz
5650-5925 MHz	76.0-81.0 GHz	All above 275 GHz

± No pulse emissions



KEY

Notes:
CW operation is permitted throughout all amateur bands.
MUF is authorized above 54.1 MHz.
Tech transmitters are authorized above 51 MHz, except for 219-220 MHz.

- RTTY and data
- phone and image
- CW only
- SSB phone
- USB phone, CW, RTTY, and data
- Fixed digital message forwarding systems only

- E - Amateur Extra
- A - Advanced
- G - General
- T - Technician
- N - Novice

See [ARRL Web](http://www.arrl.org) at www.arrl.org for detailed band plans.

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